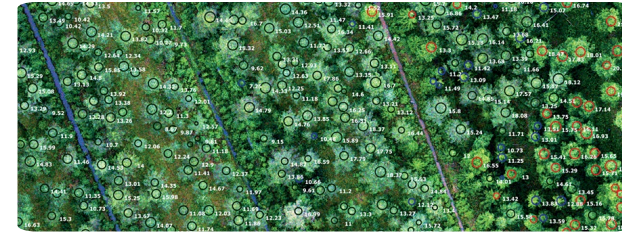


Drones in Forestry Planning



Metsä Group photographed in 2018 with drone about 3 500 hectares of forest in southern and western Finland and utilized the data as basis for forest plans for forest owners. According to experience, the method has been developed and now the drone forest plans are being sold as an alternative to traditional forest plans. The forest plan based on information described by Drone or copter with camera challenges the traditional forest planning. The method is used in particular to get more accurate tree information.

The drone plan will be of interest to the forest owners who want to be in the front and develop new developments with forest industry. For example, in a virtual forest, the data measured in the drone will create a precise tree map, where the trees are in the right places and the tree species are correct. In virtual reality, it will better reflect the fluctuations of the wood inside the forest compartment than the traditional forest plan information. The drone design and virtual forests form an interesting pair in the future by producing new experiences for forest owners.

The measurements will provide both the amount of trees in cubic meters and the value of the wood in euros more accurately than before. With drone surveys we also get information about the amount of dead wood – it helps to preserve the important structure of forest for diversity.

The method is capable of identifying tree three species: pine, spruce and birch. The remaining deciduous tree species are logged into the category of other deciduous trees. Based on the measurement data, treatment recommendations are calculated. This drone-made plan differs from the traditional, where human being makes the treatment recommendations.

The forest plan produced by drone is particularly suitable for updating the forest plan that is about to expire. It is also suitable for forest owners, who are particularly interested in the amount and value of the timber.

The forest plan of the drone also benefits from a faster delivery of traditional forest plan. Delivery time is few months, which is only half of the delivery times of traditional forest plan.

DETALJER

OPPRINNELSE FOR TRE

Skog

TYPE TRE

Tre fra rundtvirke

TYPE TRE INVOLVERT

Stemwood, energy wood

PÅVIRKNING PÅ MILJØ OG BIOLOGISK MANGFOLD

Positive

INNETKTSEFFEKT

Positive

UTNYTTELSESPOTENSIAL

--

HUB

Northern Hub

ØKONOMISK PÅVIRKNING

Positive

SPESIFIKKE KUNNSKAPSBEHOV

IT skills, knowledge of forest planning processes

MOBILISERINGSPOTENSIAL

Medium

BÆREKRAFTPOTENSIAL - VERDI

--

ENKEL IMPLEMENTERING

Easy, requires IT skills

ENKEL IMPLEMENTERING - EVALUERING

--

VIKTIGE FORUTSETNINGER

IT skills needed, co-operation needed between IT companies and forest companies

TYPE BEGIVENHET DER DENNE BPI HAR BLITT OMTALT

--

EFFEKT PÅ ARBEIDSPLASSE

Positive

KOSTNADER MED IMPLEMENTERING (EURO - €)

--

MER INFORMASJON

UTFORDRING ADRESSERT

5. Forbedre den økonomiske og miljømessige ytelsen i skogbrukets forsynings kjede

NØKKEWORD

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OPPRINELSESLAND

Finland

DOMENE

Skogforvaltning, skogskjøtsel, økosystemtjenester

DIGITAL LØSNING

Nei

POTENSIALE

Nasjonal

TYPE LØSNING

Rådgivnings- og serviceverktøy for skogeiere

INNOVASJON

Ja

START OG SLUTT ÅR

2017 -

KONTAKT INFORMASJON

EIER ELLER FORFATTER

Metsä Forest

Jani Riissanen

jani.riissanen@metsagroup.com

<https://www.metsaforest.com>

RAPPORTØR

REFERENCES AND RESOURCES

HJEMMESIDE (HOVEDSIDE)

<https://www.metsaforest.com/fi/Yritys/Tiedotteet/Pages/Tiedote.aspx>

PROSJEKTETS HJEMMESIDE

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REFERANSE TIL PROSJEKT

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RESSURSER

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LOGO FOR BESTE
PRAKSIS

LOGO FOR HOVEDORGANISASJON

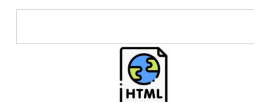


PROSJEKT SOM DETTE FAKTAARKET ER OPPRETTET UNDER
Rosewood

INNLEGGSDATO
17 sep 2019



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862681



A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

